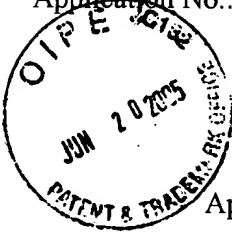


AMENDMENTS TO THE DRAWINGS

Please amend the figures as shown in the enclosed replacement sheets. The attached sheet of drawings includes changes to the element labels and the sharpness of the figure.



REMARKS

Applicant thanks the Examiner for carefully considering this application.

Disposition of the Claims

Claims 1-20 are pending in the present patent application. Claims 1, 11, 14, and 18 are independent. The remaining claims depend, either directly or indirectly, on claims 1, 11, 14, and 18.

Claim Amendments

Claims 1, 11, 14, and 18 have been amended for clarification. No new matter has been added by way of these amendments, as support for these amendments may be found, for example, in paragraphs [0022] and [0025] of the Instant Specification.

Priority Acknowledgement

Applicant thanks Examiner for acknowledging claim for priority under 35 U.S.C. §119(e). However, Applicant respectfully asserts the priority date indicated on page 2 of the Office Action dated March 18, 2005 is not correct. The correct priority date is November 21, 2000 as indicated on the Declaration for Patent Application. Applicant respectfully requests the Examiner amend the date.

Objections to the Drawing

New drawings have been submitted to comply with 37 CFR §1.121(d). Accordingly, withdrawal of this objection is respectfully requested.

Rejections under 35 U.S.C. §112

Claims 1-20 are rejected under 35 U.S.C. §112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which

applicant regards as the invention. For the reasons set forth below, this rejection is respectfully traversed.

Applicant respectfully acknowledges it would be clear to one skilled in the art that the term “an execution behavior of the instructions” may include, among other things, the list of concepts asserted by the Examiner. (*See* Office Action dated March 18, 2005 at page 3). The Applicant respectfully asserts this term has been specifically chosen to claim, in part, the operational capabilities of the present invention. Read in light of the specification, an execution behavior of the instructions is some event or state following the execution of at least one instruction that can be represented in a visual and/or numerical form. (See, *e.g.*, paragraphs [0027] and [0029] of the Instant Specification). It is desirable to analyze an execution behavior to search for trends that may lead to improvements in microprocessor design. Thus, the use of “an execution behavior” is clear and not indefinite. Accordingly, withdrawal of this rejection is respectfully requested.

Rejections under 35 U.S.C. §102

Claims 1-20 stand rejected under 35 U.S.C. §102(e) as being anticipated by U.S. Patent No. 6,209,126 issued to Sasaki et al. (hereinafter “Sasaki”). For the reasons set forth below, this rejection is respectfully traversed.

Independent claim 1 has been amended to recite, in part, (i) “graphically displaying an execution behavior of the set of instructions on the microprocessor based on the internal state information to perform an architectural analysis of the microprocessor”, and (ii) “optimizing a microprocessor design based on the architectural analysis”. Independent claims 11, 14, and 18 have been amended in a similar fashion. Sasaki teaches analyzing a source program, interpreting the source program into states in pipeline stages of pipeline processing, detecting and displaying

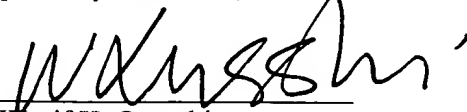
stalls in the pipeline processing, and *altering the source program* to minimize the stalls. (See Sasaki: Abstract; column 2, line 65 to column 3, line 6; Figure 4). In other words, Sasaki is clearly directed to analyzing and optimizing a source program by assessing stalls in the execution of the program through a pipeline. Sasaki is focused solely on improving the source program to minimize stalls. However, Sasaki is completely silent on using any graphically displayed information to improve and/or optimize the design of the microprocessor itself based on an architectural analysis. Therefore, Sasaki does not teach all the limitations of the present invention as recited in amended independent claims 1, 11, 14, and 18. Thus, amended independent claims 1, 11, 14, and 18 are patentable over Sasaki. Claims 2-10, 12, 13, 15-17, 19, and 20 depend, either directly or indirectly from claims 1, 11, 14, and 18 and are allowable for at least the same reason. Accordingly, withdrawal of this rejection is respectfully requested.

Conclusion

Applicant believes this reply is fully responsive to all outstanding issues and places this application in condition for allowance. If this belief is incorrect, or other issues arise, the Examiner is encouraged to contact the undersigned or his associates at the telephone number listed below. Please apply any charges not covered, or any credits, to Deposit Account 50-0591 (Reference Number 03226/016002; P4479).

Dated: June 20, 2005

Respectfully submitted,

By 

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